

## **REMARKS/ARGUMENTS**

### **STATUS OF CLAIMS**

In response to the Office Action dated February 3, 2009, claim 1, 13 and 15 have been amended. Claims 1, 3, 4, 13 and 15 are now pending in this application.

Claims 5, 7-9, 11, 12, 14 and 16 have been withdrawn from consideration as being directed to a non-elected invention.

### **REJECTION OF CLAIMS UNDER 35 U.S.C. § 103**

I. Claims 1, 3 and 4 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Uchida et al. (U.S. Patent No. 6,930,661) in view of Hakamada et al. (U.S. Patent No. 4,870,492), for the reasons substantially of record.

**It is noted that the Examiner has continued to incorrectly refer to Uchida et al. as being US Pat. No. 6,960,661 on page 2 of the Office Action, even after the error was noted in the previous Response. The correct patent number for Uchida et al. is U.S. Patent No. 6,930,661.**

Claims 13 and 15 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Uchida et al. (USPN 6,930,661) in view of Hakamada et al. (USPN 4,870,492), as applied to claim 1, and further in view of Piotrowski (US 2003/0237100), for the reasons substantially of record.

II. Both independent claims 1 and 13 include the feature of an AV output device capable of converting, with reference to channel identification information, an up-and-down input operation into a direct command for causing a tuner section, in a wireless center, to directly perform channel selection.

The first full paragraph on page 30 of the present application describes:

Thus, when an up-down channel selection key is entered at the TV main unit 5, correspondingly, the input is converted to a direct channel selection command, and then transmitted to the wireless center unit 3. *That is, the up-down channel selection key is decoded and converted to the direct channel selection command at the monitor side, and then transmitted to the tuner side. Therefore, at the wireless center unit 3, there is no need of decoding and converting the up-down channel selection command to a direct channel selection command.* This

shortens a delay time involved in the interval time for exchanging commands, thereby improving a response to the user's input for up-down channel selection. For example, compared to a conventional system, a time for displaying a channel number of the selected channel is shortened by 120 ms or more in the television receiving/reproducing system 1. (Emphasis added)

As described above, the channel up-down selection is decoded and converted to a direct channel selection command at the monitor side. Then, the direct channel selection command is transmitted to the tuner on the wireless center side. In contrast, in a conventional case, the channel up-down channel selection is converted to an up-down channel selection command (not a direct channel selection command) that is sent to the tuner on the wireless center side where it is then converted to a direct channel selection command. Therefore, in the present invention, time is saved since there is no need of decoding and converting an up-down channel selection command at the tuner on the wireless center side to a direct channel selection command, since this has been done on the monitor side.

Uchida et al. does not disclose or suggest that an up-down input operation at a wireless AV system is converted to a direct command for causing a tuner section, in a wireless center, to directly perform channel selection.

At column 8, line 53 to column 9, line 4, Uchida et al. describes, with respect to operation of channel selection at the display 100:

Once a control panel is displayed, if the user touches a position on the touch panel 121, corresponding to the position of an object operation key of the control panel CP, then the touched position is detected by the coordinate detection section 122 and conveyed to the control section 130. *The control section 130 identifies which operation key was touched and forms and supplies an operation signal corresponding to the operation key to the transmission signal formation section 111.* The transmission signal formation section 111 forms a transmission signal to be transmitted to the base apparatus 200 based on the operation signal and supplies the transmission signal to the transmission processing section 112. The transmission processing section 112 processes the transmission signal supplied thereto for transmission such as modulation and amplification to form a transmission signal of a format to be transmitted and transmits the transmission signal by radio through the multicoupler 102 and the transmission/reception antenna 101 to the base apparatus 200. (Emphasis added)

The description that control section 130 identifies which operation key was touched and forms and supplies an operation signal corresponding to the operation key to the transmission signal formation section 111 clearly evinces that Uchida et al. operates in the conventional manner described above. More specifically, the operation key touched for channel selection is converted to an operation key for channel selection command and not to a direct channel selection command.

The Examiner also maintains that Fig. 7 of Uchida et al. shows that this reference generates a direct channel selection command and transmitting the command to the wireless center. However, Fig. 7 refers to operation of set-top box 300 and not to display 100, which corresponds to the wireless AV system of claims 1 and 13. Furthermore, Step S32 of Fig. 7 merely indicates that the control section 310 of set-top box 300 forms a control signal in accordance with the remote control and supplies the control signal to the pertaining set-top box for execution (step S33) (see column 16, lines 15-26). However, there is no description of how the control section 310 forms the control signal in accordance with the remote control. Without a specific description that the control signal is a direct command to cause the tuner section of base 200 to directly perform channel selection, there is no reasonable basis for the Examiner to maintain that what is shown in Fig. 7 of Uchida et al. is equivalent functionally to forming a direct command to cause the tuner section of base 200 to directly perform channel selection.

The commander 14 of Hakamada et al., which sends a channel selection command via infrared to the receiving circuit 13, is not an AV output device, as recited in independent claims 1 and 13. In particular, commander 14 does not have a display section and a first channel identification information memory section for storing channel identification information being available for identifying a channel selected by an up-down input operation. Piotrowski also does not disclose that an up-down input operation in a wireless AV system is converted to a direct command for causing the tuner section to directly perform channel selection.

In view of the above, independent claim 1 and dependent claims 3 and 4 are patentable over Uchida et al. and Hakamada et al. In addition, independent claim 13 is patentable over Uchida et al., Hakamada et al. and Piotrowski.

At any rate, to expedite prosecution, independent claim 1 has been amended to delineate, *inter alia*:

...  
the wireless AV system, further comprising: a command conversion section, *in the AV output device*, for converting, with reference to the channel identification information, the up-down input operation *for a channel selection* to a direct *channel selection* command *that is transmitted to the wireless center* for causing the tuner section to directly perform channel selection *without having to decode and convert an up-down channel selection command, received by the wireless center from the AV output device and which is not a direct channel selection command, to a direct channel selection command.*

Independent claim 13 has been amended to recite similar subject matter.

Uchida et al., Hakamada et al. and Piotrowski do not disclose or suggest a command conversion section, in the AV output device, for converting, with reference to the channel identification information, the up-down input operation for a channel selection *to a direct channel selection command* that is transmitted to the wireless center for causing the tuner section to directly perform channel selection *without having to decode and convert an up-down channel selection command, received by the wireless center from the AV output device and which is not a direct channel selection command, to a direct channel selection command.*

To expedite prosecution, independent claim 15 has been amended to delineate, *inter alia*:

...*wirelessly receiving the input operation from the AV output device at the wireless center and causing the tuner section to perform the channel selection based on the input operation;*  
collecting *at the wireless center*, based on a result of the channel selection, channel identification information including skip information indicative of whether or not a station has been registered for each channel, *the channel identification information serving as a reference for the AV output device to generate a direct command to cause the tuner section to directly select a channel identified by an up-down channel selection at the channel input section;* and  
transmitting the channel identification information wirelessly to the AV output device in one transmission *from the wireless center.*

Therefore, the claimed apparatus of claim 15 now includes the wireless center wirelessly receiving the input operation from the AV output device. Then, channel identification information is collected at the wireless center. And then, the wireless center transmits to the AV output device in one transmission, the channel identification information serving as a reference for the AV output device to generate a direct command to cause a tuner section to directly select a channel identified by an up-down channel selection at the channel input section of the AV output device.

While Piotrowski teaches automatically updating a skip feature to add or delete channels from the skip feature (see paragraphs [0047-0048]), this is all done in receiver 10. Therefore, Piotrowski does not disclose collecting channel identification information at the wireless center, based on a result of the channel selection, that serves as a reference for the AV output device to generate a direct command to cause the tuner section to directly select a channel identified by an up-down channel selection at the channel input section, and the wireless center wirelessly transmitting the channel identification information to the AV output device.

Further, as discussed above, Fig. 7 of Uchida et al. merely refers to operation of set-top box 300 and not to display 100, which corresponds to the wireless AV system of claim 15. Therefore, Uchida et al. does not disclose collecting channel identification information at the wireless center, based on a result of the channel selection, that serves as a reference for the AV output device to generate a direct command to cause the tuner section to directly select a channel identified by an up-down channel selection at the channel input section, and the wireless center wirelessly transmitting the channel identification information to the AV output device.

In addition, as discussed above, Hakamada et al. merely discloses a commander 14 that sends a channel selection command via infrared to the receiving circuit 13, is not an AV output device, as recited in independent claim 15. In particular, the commander 14 does not have a display section. Therefore, Hakamada et al. does not disclose collecting channel identification information at the wireless center, based on a result of the channel selection, that serves as a reference for the AV output device to generate a direct command to cause the tuner section to directly select a channel identified by an up-

down channel selection at the channel input section, and the wireless center wirelessly transmitting the channel identification information to the AV output device.

Therefore, amended independent claim 15 is patentable over Uchida et al., Hakamada et al., and Piotrowski.

II. In view of the above, the allowance of claims 1, 3, 4, 13 and 15, as amended, is respectfully solicited.

### CONCLUSION


In view of the above, Applicant(s) believes the pending application is in condition for allowance.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact Aslan Ettehadieh, (Reg. No. 62,278), at the telephone number of the undersigned below, to conduct an interview in an effort to expedite prosecution in connection with the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37.C.F.R. §§1.16 or 1.14; particularly, extension of time fees.

Date:

Respectfully submitted,

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